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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/542,053	07/12/2005	Yukihiro Yanagawa	274562US0PCT	6381
22850	850 7590 03/24/2006		EXAMINER	
OBLON, SPIVAK, MGCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314			LAVILLA, MICHAEL E	
			ART UNIT	PAPER NUMBER
			1775	
			DATE MAILED: 03/24/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	I A	Anadiaantia			
	Application No.	Applicant(s)			
	10/542,053	YANAGAWA ET AL.			
Office Action Summary	Examiner	Art Unit			
	Michael La Villa	1775			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on 12 Ju	<u>ıly 2005</u> .				
2a) This action is FINAL . 2b) ⊠ This	\cdot				
	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
 4) Claim(s) 1-15 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 					
6) Claim(s) <u>1-15</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on 12 July 2005 is/are: a) Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	☑ accepted or b)☐ objected to be drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s)					
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 20050712.		atent Application (PTO-152)			

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DETAILED ACTION

Specification

The spacing of the lines of the specification is such as to make reading difficult.
 New application papers with lines 1½ or double spaced on good quality paper are required.

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the second paragraph of 35 U.S.C. 112:
- 3. The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claims 1-15 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 5. Regarding Claims 1 and 2, it is unclear what is the relationship between the "electroconductive metal," "electroformed layer," "electroconductive film," "aluminum" and "oxygen." Is the metal of the first mentioning of "electroconductive metal" necessarily the same or different from the metal of the second mentioning of "electroconductive metal"? Is the first mentioned metal to be aluminum? The claim says that the "electroconductive film" is "formed on a front face thereof." What comprises the material of the mold? Is this the "electroformed layer"? Is it something else? It is unclear how the "front face thereof" is to comprise a film of "electroconductive metal," yet the "electroconductive film" has "the front face" "substantially formed" of aluminum or aluminum and oxygen. What is the relationship between "the front face thereof,"

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"a back face of the electroconductive film," "the electroconductive film having the front face," "the back face formed of an electroconductive metal," "the front face toward the back face"? Are more than one front and/or back faces being described? Is the "electroformed layer" possibly something other than "electroconductive metal" and aluminum? Can the electroformed layer and electroconductive metal be aluminum?

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- 6. Regarding Claims 3 and 5, it is unclear whether the claimed compounding ratio is an average ratio or a specification of the limits of relative amounts that must be found in the film.
- 7. Regarding Claim 7, it is unclear whether the decrease is to occur to a depth of 110 angstroms or starting at a depth of 110 angstroms. Is "rate" the same as "ratio"? It is unclear what is meant by "monotonically." Is this a linear decrease, a variation that is always a decrement, or something else?
- 8. Regarding Claim 9, it is unclear what is the antecedent basis of the phrase "the electroconductive metal." Which reference to "electroconductive metal" is being further specified?
- 9. Regarding Claim 11, it is unclear whether the aluminum evaporation step results in all fitted aluminum being left, or not necessarily. Is the non-evaporated fitted aluminum to be removed or not contributed to the formed article? It is unclear whether the "electroconductive metal" can be "aluminum."
- 10. Regarding Claim 12, it is unclear whether the claimed ratio refers to the weight ratio of materials to be deposited or to weight ratio of materials deposited and

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forming a film. If the latter, it is unclear whether the ratio is an average or range that must be obtained.

- 11. Regarding Claim 14, it is unclear whether Claim 14 ends at line 2 with the word "nickel."
- 12. Regarding Claim 15, it is unclear what is meant by the phrase "metal to be electroformed." An electroformed layer is formed. Is this what is being described?

COMMENT

13. Since the meaning of these claims cannot be ascertained, no prior art rejections are applied. Depending on applicant's arguments and/or amendments, prior art rejections may be warranted over the cited prior art or other references.

Conclusion

- 14. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael La Villa whose telephone number is (571) 272-1539. The examiner can normally be reached on Monday through Friday.
- 15. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jennifer McNeil can be reached on (571) 272-1540. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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16. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Michael La Villa 20 March 2006

> MICHAEL E. LAVILLA PH. D PRIMARY EXAMINER

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